



Town of Granby, Connecticut

2017 Stormwater Management Plan

**General Permit for the Discharge of Stormwater
from Small Municipal Separate Storm Sewer Systems**

Permit Number GSM000029

Permit Issuance Date: January 20, 2016

Effective Date: July 1, 2017

Expiration Date: June 30, 2022

Last Amended Date: August 29, 2017

TABLE OF CONTENTS

General Permittee Information	1
Receiving Waters Table.....	2
Minimum Control Measures	4
Minimum Control Measure No. 1 Public Education and Outreach	6
1.1 Implement Public Education Program.....	6
1.2 Implement Public Education and Outreach Program	6
1.3 Additional Measures for Stormwater Pollutants of Concern	7
1.4 Suggested Strategies	8
Minimum Control Measure No. 2 Public Involvement/Participation	9
2.1 Publish a Public Notice	9
2.2 Enlist Local Organizations	9
Minimum Control Measure No. 3 Illicit Discharge Detection and Elimination (IDDE)	10
3.1 IDDE Program Elements	10
3.2 Establish Necessary and Enforceable Legal Authority	11
3.3 Development of Data.....	12
3.4 Additional Measures for Stormwater Pollutants of Concern	13
Minimum Control Measure No. 4 Construction Site Stormwater Runoff Control	14
4.1 Legal Authority	14
4.2 Interdepartmental Coordination.....	15
4.3 Site Review and Inspection	15
4.4 Public Involvement.....	16
4.5 State Permit Notification	16
4.6 Construction Discharges.....	17
Minimum Control Measure No. 5 Post-Construction Stormwater Management in New Development or Redevelopment.....	18
5.1 Legal Authority	18
5.2 Runoff Reduction Low Impact Development (LID) Measures.....	19
5.3 Directly Connected Impervious Area	21
5.4 Long Term Maintenance	21
5.5 Additional Measures for Discharges to Impaired Waters (with or without a TMDL).....	22
Minimum Control Measure No. 6 Pollution Prevention/Good Housekeeping	23
6.1 Employee Training	23
6.2 Infrastructure Repair, Rehabilitation and Retrofit.....	23
6.3 MS4 Property and Operations Maintenance.....	25
6.4 Street, Parking & MS4 Maintenance.....	27
6.5 Snow Management Practices.....	29
6.6 Interconnected MS4s	30
6.7 Sources contributing pollutants to the MS4	31
6.8 Additional Measures for Discharges to Impaired Waters (with or without a TMDL).....	31
Certification Requirements for Registrants and Other Individuals	34
Stormwater Management Plan (SMP) Certification	35

**General Permit for the Discharge of Stormwater from Small Municipal
Separate Storm Sewer Systems (MS4s)**

2017 Stormwater Management Plan

Town of Granby, Connecticut

Permit Number GSM000029

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15 North Granby Road
Granby, CT 06035

Principal Contact:

Director of Public Works: Kirk A. Severance
Office: 860.653.8960
Fax: 860.653.8959
Mobile: 860.982.9253
E-mail: kseverance@granby-ct.com

Mailing Address: Granby DPW Facility
52 North Granby Road
Granby, CT 06035

MCM No. 6 BMP Implementation:

Director of Public Works: Kirk A. Severance
Office: 860.653.8960
Fax: 860.653.8959
Mobile: 860.982.9253
E-mail: kseverance@granby-ct.com

Town website: <http://www.granby-ct.com/>

Stormwater Compliance:

ATC Group Services, LLC
(Formerly Environmental Compliance Services, Inc.)

Luke Whitehouse, Project Manager
Office: 203.488.9481
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Nathan L. Jacobson & Associates, Inc.

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Office: 860.526.9591
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Chester, CT 06412-0337

Receiving Water Table

Receiving Stream, Watershed or Waterbody Watershed	ID No.	Impairment
Salmon Brook Dismal Brook East Branch Salmon Brook Mountain Brook Ring Brook Belden Brook Creamery Brook Hungary Brook Manitook Lake	13,900 Acres 4320	None
West Branch Salmon Brook Moosehorn Brook Beach Brook Kendall Brook Bissell Brook	11,153 Acres 4319	E. coli
Cherry Brook	830 Acres 4309	None
Farmington River	413 Acres 4300	None
Great Brook	1 Acre 4001	None

Waterbody Impairment Designation Reference:

Connecticut Environmental Conditions on Line
Advanced Map Viewers
CT DEEP 2014 Integrated Water Quality Report

Town Area, Improved Road Miles, and Stormwater Management Infrastructure

Town Area (Square Miles):	41.09
Town Area (Acres):	26,298.54
Miles of Improved Roads	91.52
Number of MS4 Stormwater Outfalls	210
Number of Stormwater Outfalls Discharging Directly to Watercourses or Water Bodies	TBD
Approximate Number of Catch Basins	1,340

The 2004 Stormwater Management Plan (SMP) and the 2016 Annual Report are available for public review and comment at the following Town of Granby URL internet address:

<https://www.granby-ct.gov/public-works/pages/storm-water-management-plan>

To satisfy public notice requirements, and to solicit comments from the public, the 2017 Stormwater Management Plan (SMP) was available on the Town of Granby website on April 11, 2017.

To satisfy public notice requirements and to solicit comments from the public, the MS4 Annual Report will be available on the Town of Granby website a minimum of 45-days prior to submission of the MS4 Annual Report, or before May 15th, of each calendar year.

A 1:24,000 scale (1" = 2,000') electronic map of the Town of Granby has been compiled from the following 1:24,000 scale USGS 7.5 minute quadrangles maps:

Southwick, Massachusetts Quadrangle
New Hartford, Connecticut Quadrangle
Tariffville, Connecticut Quadrangle

The map has been annotated to identify the Town of Granby boundaries and the limit of the municipal separate storm sewer system. A pdf of the electronic map is attached hereto and will be submitted with the General Permit Registration Form for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems hard copy submission to the CT DEEP Central Permit Processing Unit.

In accordance with Section 3(b) of the 2017 CT DEEP MS4 Stormwater General Permit, the Town of Granby Stormwater Management Plan is consistent with the following provisions of state statutes and regulations, where applicable:

1. The Stormwater Management Plan will not threaten the continued existence of any endangered or threatened species listed pursuant to the Connecticut General Statutes Section 26-306 and will not result in the deterioration or adverse modification of endangered or threatened species habitat.
2. The implementation of the Stormwater Management Plan within an Aquifer Protection Area as mapped under the Connecticut General Statutes Section 22a-345b will comply with regulations adopted pursuant to under Section 22a-354i of the Connecticut General Statutes. For any activity regulated pursuant to Sections 8(c) and 9(d) of the Aquifer Protection Regulations (Section 22a-354i (1)-(10) of the Regulations of Connecticut State Agencies), the SMP will be managed in a manner to prevent groundwater pollution.

3. The Stormwater Management Plan has been reviewed for consistency with state Historic Preservation statutes, regulation and policies including identification of any potential impacts on property listed on the Connecticut Register of Historic Places. An Army Corps of Engineers Section 404 Wetland Permit would meet the qualification.
4. The Stormwater Management Plan appropriately addresses new or increased discharges to high quality waters as specified in Section 3(b)(6) of the 2017 CT DEEP MS4 Stormwater General Permit.
5. The Stormwater Management Plan appropriately addresses new or increased discharges to impaired waters as specified in Section 3(b)(7) of the 2017 CT DEEP MS4 Stormwater General Permit.

The certification requirements are at the end of this SMP.

CT DEEP MS4 Stormwater General Permit Minimum Control Measures (MCM)

- MCM No. 1 Public Education and Outreach
- MCM No. 2 Public Participation and Involvement
- MCM No. 3 Illicit Discharge Detection and Elimination
- MCM No. 4 Construction Site Stormwater Runoff
- MCM No. 5 Post-Construction Stormwater Runoff Control
- MCM No. 6 Pollution Prevention/Good Housekeeping

Minimum Control Measures

For each Minimum Control Measure (MCM), the Town of Granby will define the appropriate Best Management Practice (BMP); designate responsible personnel and job title for each BMP; define a time line for implementation of each BMP; where appropriate, identify the location, including the address and latitude and longitude, for each BMP; and define measurable goals for each BMP.

1. The permittee will at all times continue to meet the requirements for authorization set forth in Section 3 of this general permit. In addition, a permittee will ensure that authorized activities are conducted in accordance with the following conditions:
 - A. Conditions Applicable for Certain Discharges
 - (1) There will be no distinctly visible floating scum, oil or other matter contained in the stormwater discharge (excluded from this are naturally occurring substances such as leaves and twigs provided no person has placed such substances in or near the discharge).
 - (2) The stormwater discharge will not result in pollution which may cause or contribute to acute or chronic toxicity to aquatic life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.
 - (3) The stormwater discharge will not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.
 - (4) Any new stormwater discharge to high quality waters (as identified by the Commissioner consistent with the Water Quality Standards) will be discharged in accordance with the Connecticut Anti-Degradation

Implementation Policy in the Water Quality Standards Manual. At a minimum, the permittee will evaluate and implement to the Maximum Extent Practicable practices which will prevent the discharge of the Water Quality Volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.

- (5) Any stormwater discharge to the waters identified in Appendix D of the 2017 CT DEEP MS4 Stormwater General Permit will be managed for the Stormwater Pollutant of Concern identified in the appendix consistent with the requirements in Section 6 of this permit.

Minimum Control Measures No. 1 Public Education and Outreach

1.1 Implement Public Education Program

By June 30, 2018, the Town of Granby will implement a public education program to distribute educational materials to the Town of Granby community or conduct equivalent outreach activities about the sources and impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff.

The education program will include, but not be limited to, information on management of pet waste, application of fertilizers, herbicides, and pesticides, impervious cover and impacts of illicit discharges and improper disposal of waste into the MS4. The form and content of the education program will be dependent on the audience and identified areas of concern.

The Town of Granby may join other towns in the same region to develop and implement a public education program. Educational information may be developed and/or acquired from other towns, governmental agencies, community and non-governmental organizations, councils of government, academia, and/or environmental advocacy organizations.

Outreach resources will be available from the DEEP stormwater webpage at www.ct.gov/deep/stormwater. Information may be disseminated with flyers, brochures, door hangers, television public service announcements, and/or web based tools.

The goals of this minimum control measure are:

- To raise awareness that polluted stormwater runoff is the most significant source of water quality problems;
- To motivate residents to use Best Management Practices (BMPs) which reduce polluted stormwater runoff; and
- To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner and Town Website Manager

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

It is anticipated that public education resources from the CT DEEP, US EPA, and other online resources and will be linked to the Town of Granby website.

To be included in the 2017 Annual Report.

1.2 Implement Public Education and Outreach Program

To implement the public education and outreach program by June 30, 2018, the Town of Granby will develop or acquire current educational material from CT DEEP and other sources that identifies the pollutants (such as pathogens, bacteria, nitrogen, phosphorus, sediments, metals,

oils & greases) associated with stormwater discharges, the potential sources of the pollutants, the environmental impacts of these pollutants, and related pollution reduction practices.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner and Town Website Manager

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

To be included in the 2017 Annual Report.

1.3 Additional Measures for Stormwater Pollutants of Concern

These measures may be implemented solely by the Town of Granby or as part of a collaborative regional or statewide program to address the issue. However, the Town of Granby retains sole responsibility for compliance with this section. The method of implementation will be indicated in the Town of Granby SMP.

1. Waters for which Phosphorus is a Stormwater Pollutant of Concern, educational materials will be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:
 - A. Septic systems
 - B. Fertilizer use
 - C. Grass clippings and leaves management
 - D. Detergent use
 - E. Discharge of sediment (to which Phosphorus binds) from Construction sites
 - F. Other erosive surfaces
2. Waters for which Nitrogen is a Stormwater Pollutant of Concern, educational materials will be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:
 - A. Septic systems
 - B. Fertilizer use
 - C. Grass clippings and leaves management
 - D. Discharge of sediment (to which Nitrogen binds) from Construction sites
 - E. Other erosive surfaces
3. Waters for which Bacteria is a Stormwater Pollutant of Concern, educational materials will be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:
 - A. Septic systems
 - B. Sanitary cross connections
 - C. Waterfowl

- D. Pet waste
 - E. Manure piles associated with livestock and horses
4. Waters for which Mercury is a Stormwater Pollutant of Concern, educational materials will be specifically tailored and targeted to educate on the sources, impacts and available recycling programs for elemental mercury and mercury-containing items such as:
- A. Thermometers
 - B. Thermostats
 - C. Fluorescent lights
 - D. Button cell batteries

Bacteria (*Escherichia coli*) a statewide Bacteria TMDL Pollutant of Concern has been identified in the West Branch Salmon Brook. It is anticipated that educational materials pertaining to *E. coli* will be made available to the public.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner and Town Website Manager

Anticipated Date of BMP Implementation:

June 30, 2018

BMP Implementation Measurable Goal:

To be included in the 2017 Annual Report.

1.4 Suggested Strategies

1. The Town of Granby is encouraged to direct such outreach program and/or materials at specific populations. Such target populations may include, for example, school age populations, farming populations, and urban populations. Sample educational material for each Stormwater Pollutant of Concern noted above will be made available by CT DEEP.
2. Partner with local organizations: Town of Granby may wish to include in its outreach efforts various local organizations which may be able to assist in helping to spread the stormwater message.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner and Town Website Manager

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

To be included in the applicable Annual Report.

Minimum Control Measures No. 2 Public Involvement/Participation

The Town of Granby will provide opportunities to engage their community to participate in the review and implementation of the SMP. The goal of this minimum control measure is to involve the community in both the planning and implementation process of improving water quality. Public participation is beneficial to the success of a municipal stormwater management program because it allows for a broader public support, additional expertise, and a conduit to other programs. Community members are also more likely to apply these lessons/BMPs at home if they are part of the process.

2.1 Publish a Public Notice

Publish a Public Notice on the Town of Granby website, through an email or mailing list, or in a newspaper with general circulation in the area to inform the public of the SMP and the Annual Report required by Section 6(j) of the 2017 CT DEEP MS4 Stormwater General Permit and to solicit comments on the SMP and Annual Report. The Public Notice will provide a contact name (with phone number, address, and email) to whom the public can send comments and a publicly accessible location (such as the MS4's main office or other designated municipal office, a local library or other central publicly available location) and/or URL where the SMP and Annual Report are available for public review. The Public Notice will allow for a 90-day comment period (minimum) for the SMP and a 45-day comment period (minimum) for the Annual Report. Town of Granby will publish the Public Notice no later than April 1, 2017 for the SMP and no later than February 14th of every year for the Annual Report.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner and Town Website Manager

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

To be included in the applicable Annual Report.

2.2 Enlist Local Organizations

The Town of Granby is encouraged to enlist local organizations to help implement the elements of their SMP. However, the Town of Granby retains sole responsibility for permit compliance.

Personnel Responsible for Implementing and Maintaining the BMP:

To Be Determined

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

To be included in the applicable Annual Report.

Minimum Control Measures No. 3 Illicit Discharge Detection and Elimination (IDDE)

By June 30, 2018, the Town of Granby will develop a written Illicit Discharge Detection and Elimination (IDDE) program designed to: provide the legal authority to prohibit and eliminate illicit discharges (as defined in Section 2 except for those discharges noted in the Section 3(a)(2) of the 2017 CT DEEP MS4 Stormwater General Permit) to the MS4; find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges. Failure to implement all elements of the IDDE program to the Maximum Extent Practicable (MEP) constitutes a violation of the 2017 CT DEEP MS4 Stormwater General Permit.

3.1 IDDE Program Elements

1. The Town of Granby will, at a minimum, implement the IDDE program elements in this section and the IDDE protocol in Appendix B of the MS4 Stormwater General Permit within the Urbanized Area and those catchment areas of the MS4 with either Directly Connected Impervious Area (DCIA) of greater than 11% (as identified on maps available at www.ct.gov/deep/municipalstormwater) or which discharge to impaired waters ("priority" areas). The Town of Granby is encouraged to develop a prioritizing strategy to identify areas outside these identified areas to further implement these IDDE measures. This prioritization strategy shall utilize the prioritization elements included in Section (A)(7)(c) of Appendix B of the 2017 MS4 Stormwater General Permit.
2. Illicit discharges to the MS4 by any person are prohibited, and any such discharges are not authorized by the general permit, are unlawful, and remain unlawful until they are eliminated. The Town of Granby will prohibit all illicit discharges from entering its MS4. Upon detection, the Town of Granby will eliminate illicit discharges as soon as possible and require the immediate cessation of such discharges upon confirmation of responsible parties in accordance with its enforceable legal authorities established pursuant to subsection (B) below. Where elimination of an illicit discharge within sixty (60) days of its confirmation is not possible, the Town of Granby will establish a schedule for the illicit discharge elimination not to exceed 180-days (six months). The Town of Granby will immediately commence actions necessary for elimination. The Town of Granby will diligently pursue elimination of all illicit discharges. In the interim, the Town of Granby will take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.
3. The Town of Granby will develop a program for citizen reporting of illicit discharges. This may include maintaining a website, email list or mailing program that provides clear instructions for the public describing how citizens can submit an illicit discharge report. The reporting program will provide an email address and/or a phone number or other means for submissions. The Town of Granby will affirmatively investigate and eliminate any illicit discharges reported to it by any citizen or organization, provided that such report incorporates at least a time and location of an observed discharge. The Town of Granby will commence inspection of such a reported outfall or manhole promptly after receiving such a report, and incorporate those reported outfalls into its IDDE program subject to all provisions of subsection (3) and of Appendix B of the 2017 MS4 Stormwater General Permit. All citizen reports and the responds to those reports will be included in the Annual Report.

4. The Town of Granby will implement outfall screening and an illicit discharge detection protocol pursuant to Appendix B of the 2017 MS4 Stormwater General Permit to identify, prioritize, and investigate separate storm sewer catchments for suspected illicit discharges of pollutants.
5. The Town of Granby will maintain a record of illicit discharge abatement activities including, at a minimum: location (identified with an address or latitude and longitude), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party(ies). This information will be included in the Town of Granby Annual Reports pursuant to the Section 6(j) of the 2017 MS4 Stormwater General Permit.
6. Timelines - Town of Granby will implement IDDE program elements in accordance with the schedules included in this section and in Appendix B of the 2017 MS4 Stormwater General Permit.

Personnel Responsible for Implementing and Maintaining the BMP:

Board of Selectmen with possible assistance from the Farmington Valley Health District

Anticipated Date of BMP Implementation:

By June 30, 2018

BMP Implementation Measurable Goal:

To be included in the applicable Annual Report.

3.2 Establish Necessary and Enforceable Legal Authority

By June 30, 2018, the Town of Granby will establish the necessary and enforceable legal authority by statute, ordinance, rules and regulations, permit, easement, contract, order or any other means, to eliminate illicit discharges.

1. The legal authority will:
 - A. Prohibit illicit discharges to its storm sewer system and require removal of such discharges consistent with 3.1, above; and
 - B. Control the discharge of spills and prohibit the dumping or disposal of materials including, but not limited to, residential, industrial and commercial wastes, trash, used motor vehicle fluids, pesticides, fertilizers, food preparation waste, leaf litter, grass clippings, and animal wastes into its MS4; and
 - C. Authorize fines or penalties and/or recoup costs incurred by the Town of Granby from anyone creating an illicit discharge or spilling or dumping as specified in 3.1, above. For state and federal institutions, where this provision may conflict with existing rules, regulations, policies, chain of command or other circumstances, alternate provisions for enforcement may be utilized.
 - D. Provide any additional legal authorities specified in Section (A)(7)(a) of Appendix B of the 2017 MS4 Stormwater General Permit.

Personnel Responsible for Implementing and Maintaining the BMP:

*Fran Armentano, AICP, Town Planner
Board of Selectmen,
Town Legal Counsel
Town Meeting*

Anticipated Date of BMP Implementation:

Implemented at the November 26, 2016 Town Meeting

BMP Implementation Measurable Goal:

Included in the 2016 Annual Report.

3.3 Development of Data

By June 30, 2019, the Town of Granby will develop a list (spreadsheet or database) and map or series of maps at a minimum scale of 1"=2000' and maximum scale of 1"=100' showing all stormwater discharges from a pipe or conduit located within and owned or operated by the municipality and all interconnections with other MS4s. The map will be developed in a GIS format.

1. The list and map(s) will include for each discharge:
 - A. Type, material, size, and location (identified with a latitude and longitude) of conveyance, outfall or channelized flow (e.g. 24" diameter round concrete pipe);
 - B. The name, water body ID and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
 - C. If the outfall does not discharge directly to a named waterbody, the name and water body ID of the nearest named waterbody to which the outfall eventually discharges;
 - D. The name of the watershed, including the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located; and
 - E. The spreadsheet or database will be prepared in a format compatible with Microsoft Excel.

Personnel Responsible for Implementing and Maintaining the BMP:

*Department of Public Works Employee
Nathan L. Jacobson & Associates, Inc.
Town of Granby GIS Personnel*

Anticipated Date of BMP Implementation:

The majority of the MS4 outfall mapping for the entire town was conducted during the 2005 and 2006 and 2009 calendar years. It is anticipated that a draft copy of the MS4 Stormwater Outfall Map will be completed by July 01, 2017. A quality control check of the MS4 Stormwater Outfall Map is anticipated to be completed by June 30, 2018.

BMP Implementation Measurable Goal:

The mapping was described in the 2016 MS4 Annual Report. Creation of a Draft MS4 Stormwater Outfall GIS layer, and field QC/QA will be included in the applicable Annual Report.

3.4 Additional Measures for Stormwater Pollutants of Concern

1. To address septic system failures, the IDDE program will give highest priority for the IDDE program in areas with the highest potential to discharge bacteria, phosphorus, and nitrogen to the MS4. Such areas will be identified based on assessment of the following criteria: historic on-site sanitary system failures, proximity to bacteria impaired waters, low infiltrative soils, and willow groundwater. Consultation with local or state health officials is strongly encouraged. The Annual Report will include a summary of the program, the number of areas identified with failing systems, actions taken by the Town of Granby to respond to and address the failures, and the anticipated pollutant reduction.

Personnel Responsible for Implementing and Maintaining the BMP:

Board of Selectmen with possible assistance from the Farmington Valley Health District.

Anticipated Date of BMP Implementation:

Continuous upon implementation.

BMP Implementation Measurable Goal:

To be included in the applicable Annual Report.

Minimum Control Measures No. 4 Construction Site Stormwater Runoff Control

The Town of Granby will implement and enforce a program to control stormwater discharges (to its MS4) associated with land disturbance or development (including re-development) activities from sites (as defined in the Department's *General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities*) with one acre or more of soil disturbance, whether considered individually or collectively as part of a larger common SMP. Such program will include the following elements:

4.1 Legal Authority

1. The Town of Granby will establish an ordinance, bylaw, regulation, standard condition of approval or other appropriate legal authority that requires:
 - A. Developers, construction site operators, or contractors to maintain consistency with the *2002 Connecticut Guidelines for Soil Erosion and Sedimentation Control*, as amended, the *CT DEEP 2004 Connecticut Stormwater Quality Manual*, and all stormwater discharge permits issued by the DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b;
 - B. The implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by the municipality or institution;
 - C. The Town of Granby will carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs or institutional requirements related to the management of the Town of Granby MS4. Specifically, inspections will be conducted, where allowed, to inventory the number of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive drainage from the Town of Granby MS4;
 - D. The owner of a site seeking development approval from the Town of Granby to provide and comply with a long-term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive discharge from the Town of Granby MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
 - E. The Town of Granby to control through interagency or inter-jurisdictional agreements, the contribution of pollutants between the Town of Granby MS4 and MS4(s) owned or operated by others.

By June 30, 2019, the Town of Granby will implement, upgrade (if necessary) and enforce its land use regulations (for municipalities) or its construction requirements (for institutions) to meet the above requirements.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, AICP, Town Planner

Kevin W. Clark, P.E., L.S., Town Engineer

Qualifying Local Program

Land Use Regulations in place include the following:

- *Aquifer Protection Area Regulations of the Town of Granby*
- *Subdivision Regulations of the Town of Granby*
- *Zoning Regulations of the Town of Granby*

Anticipated Date of BMP Implementation:

Beginning July 01, 2017

BMP Implementation Measurable Goal:

*Amend the Land Use Regulations as required
To be included in the applicable Annual Report.*

4.2 Interdepartmental Coordination

By July 01, 2017, the Town of Granby will develop and implement a plan outlining how all municipal or institutional departments and boards with jurisdiction over the review, permitting, or approval of land disturbance and development projects within the MS4 will coordinate their functions with one another.

Personnel Responsible for Implementing and Maintaining the BMP:

*Fran Armentano, AICP, Town Planner
Office of Community Development
William Volovski, Building Official/Zoning Enforcement*

Anticipated Date of BMP Implementation:

By July 01, 2017

BMP Implementation Measurable Goal:

To be included in the 2017 Annual Report.

4.3 Site Review and Inspection

By July 01, 2017, the Town of Granby will conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality.

By July 01, 2017, the Town of Granby will conduct site inspection(s) and enforcement to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures.

Personnel Responsible for Implementing and Maintaining the BMP:

Fran Armentano, Town Planner

Kevin W. Clark, P.E., L.S., Town Engineer

Anticipated Date of BMP Implementation:

July 01, 2017

BMP Implementation Measurable Goal:

To be included in the appropriate Annual Report.

4.4 Public Involvement

The Town of Granby will implement a procedure for receipt and consideration of information submitted by the public concerning proposed and ongoing land disturbance and development activities.

Personnel responsible for implementing and maintaining the BMP:

Fran Armentano, Town Planner

Office of Community Development Staff

Anticipated date of BMP implementation:

June 30, 2018

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

4.5 State Permit Notification

Effective July 01, 2017, The Town of Granby will implement a procedure for notifying developers (working in a municipality) or contractors (working for a municipality or an institution) of their potential obligation to obtain authorization under the CT DEEP *General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities* ("construction general permit") if their development or redevelopment project disturbs one or more acres of land, either individually or collectively, as part of a larger common plan, and results in a point source discharge to the surface waters of the state directly or through the Town of Granby MS4. The notification will include a provision informing the developer/contractor of their obligation to provide a copy of the Stormwater Pollution Control Plan (SPCP) (required by the construction general permit) to the Town of Granby upon request.

Personnel responsible for implementing and maintaining the BMP:

Fran Armentano, Town Planner

Kevin W. Clark, P.E., L.S., Town Engineer

Anticipated date of BMP implementation:

Bu July 01, 2017

BMP Implementation measurable goal:

To be included in 2017 Annual Report

4.6 Construction Discharges

For construction discharges to waters for which Phosphorus, Nitrogen, Bacteria, or Mercury is a Stormwater Pollutant of Concern no additional measures are included in this section except as may be required by Sections 3(b)(7) or 6(k) of the 2017 MS4 Stormwater General Permit.

Personnel responsible for implementing and maintaining the BMP:

Fran Armentano, Town Planner

Kevin W. Clark, P.E., L.S., Town Engineer

Anticipated date of BMP implementation:

Not Applicable

BMP Implementation measurable goal:

Not Applicable

Minimum Control Measures No. 5 Post-Construction Stormwater Management in New Development or Redevelopment

5.1 Legal Authority

1. By June 30, 2021, the Town of Granby will establish an ordinance, bylaw, regulation, standard condition of approval or other appropriate legal authority that requires, to the Maximum Extent Practicable, that an applicant seeking land use commission from the Town of Granby will consider the use of Low Impact Development ("LID") and runoff reduction site planning and development practices prior to the consideration of other practices in the Town of Granby land use regulations (Subdivision Regulations, and Zoning Regulations), guidance or construction project requirements to meet or exceed those LID and runoff reduction practices identified in the *2004 Connecticut Stormwater Quality Manual*.
2. Such legal authority will include the following standards:
 - A. For redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, retain on-site half the water quality volume for the site, or
 - B. For new development and redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site, or
 - C. An alternate retention/treatment standard as outlined below. The Town of Granby will identify and, where appropriate, reduce or eliminate existing local regulatory barriers to implementing LID and runoff reduction practices to the MEP. These may include site planning requirements, zoning regulations, street design regulations, or infrastructure specifications that address minimal dimensional criteria for the creation of roadways, parking lots, and other DCIA. If such barriers cannot be eliminated within the above timeframe, the Town of Granby will provide in the Annual Report(s) a justification and a revised schedule for implementation.
3. In establishing the legal authority, the Town of Granby will consider the following watershed protection elements to manage the impacts of stormwater on receiving waters, except where noted:
 - A. Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within each municipality by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of Low Impact Development (LID) or Green Infrastructure (GI) practices.
 - B. Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed functions. These areas may include, but are not limited to; riparian corridors, headwaters, floodplains and wetlands.
 - C. Implement stormwater management practices that prevent or reduce thermal impacts to streams, including requiring vegetated buffers along waterways, and disconnecting discharges to surface waters from impervious surfaces such as parking lots.

- D. Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges.
- E. Implement standards to protect trees, and other vegetation with important evapotranspiration qualities.
- F. Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.

Personnel responsible for implementing and maintaining the BMP:

Fran Armentano, Town Planner

Kevin W. Clark, P.E., L.S., Town Engineer

Anticipated date of BMP implementation:

By June 30, 2021

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

5.2 Runoff Reduction Low Impact Development (LID) Measures

1. By June 30, 2019, pursuant to the requirements of subsection 5(A)(i) above, of the 2017 MS4 Stormwater General Permit, the Town of Granby will require the party responsible (i.e. a developer within a municipal boundary or a developer/contractor with the institution) for development and redevelopment projects within its MS4 to:
 - A. For development or redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, retain on-site half the water quality volume for the site. In cases where this entire amount cannot be retained, the Town of Granby will require the responsible party to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment, to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice, will be required for sediment, floatables and nutrients for the volume above that which can be retained up to the water quality volume. In cases where the runoff reduction requirement cannot be met, the developer/contractor will submit, for the Town of Granby to review, a report detailing factors limiting the capability of achieving this goal. In such cases, the Town of Granby will approve a stormwater mitigation project on another site proposed by the developer/contractor or approve a fee to be deposited into a dedicated account of the Town of Granby for use by the Town of Granby to fund in whole or in part the retrofit of one or more existing DCIA. Unless such fee is established by DEEP, the fee proposed by the developer/contractor should be set in amount approved by the Town of Granby as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site. The report will include: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices

constitute the maximum extent achievable; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume. In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of the right of way: (1) for projects that may be unable to comply with the full retention standard, the alternate retention and treatment provisions may also be applied as specified above, or (2) for projects that will not increase the DCIA within a given watershed, the developer/contractor will implement the additional stormwater treatment measures referenced above, but will not be required to retain half of the water quality volume.

- B. For all new development and for redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g. brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, to the Town of Granby for review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. In such cases, the Town of Granby will approve a stormwater mitigation project on another site proposed by the developer/contractor or approve a fee to be deposited into a dedicated account of the Town of Granby for use by the Town of Granby to fund in whole or in part the retrofit of one or more existing DCIA. Unless such fee is established by the CT DEEP, the fee proposed by the developer/contractor should be set in amount approved by the Town of Granby as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site. Any such treatment will otherwise be designed, installed and maintained consistent with the *2004 Connecticut Stormwater Quality Manual*. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.
- C. Consider the limitation of turf areas to those areas necessary to construct buildings, utilities, stormwater management measures, parking, access ways, reasonable lawn areas and contouring necessary to prevent future site erosion.
- D. Maintain consistency with the CT DEEP *2004 Connecticut Stormwater Quality Manual*, or if inconsistent, provide an explanation of why consistency is not feasible or practicable and information that the proposed SMP of development is adequately protective.
- E. In areas served by on-site sewage disposal (septic) systems, the Town of Granby should coordinate with the Farmington Valley Health District to confirm that any infiltration measures are appropriately sized, located and constructed in a manner consistent with the *Connecticut Department of Public Health Technical Standards*

for Subsurface Sewage Disposal Systems, Section 19-13-B100A of the Regulations of Connecticut State Agencies and/or CT DEEP requirements for on-site sewage disposal systems.

Personnel responsible for implementing and maintaining the BMP:

*Fran Armentano, AICP, Town Planner
Kevin W. Clark, P.E., L.S., Town Engineer*

Anticipated date of BMP implementation:

By June 30, 2018

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

5.3 Directly Connected Impervious Area

By June 30, 2020, using mapping provided by the Commissioner (available at www.ct.gov/deep/municipalstormwater) or other equivalent source, the Town of Granby will calculate the Directly Connected Impervious Area (DCIA) that contributes stormwater runoff to each of its MS4 outfalls (i.e. catchment area). The DCIA calculation will be based upon the criteria available through the DEEP stormwater webpage and the precise methodology and assumptions will be described in the Town of Granby SMP and the applicable Annual Report. Each Annual Report will document the progress of this task until its completion. The Town of Granby will revise its DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA to/from the MS4.

Personnel responsible for implementing and maintaining the BMP:

Kevin W. Clark, P.E., L.S., Town Engineer (if needed)

Anticipated date of BMP implementation:

By June 30, 2020

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

5.4 Long Term Maintenance

By June 30, 2019, the Town of Granby will implement a maintenance SMP for ensuring the long-term effectiveness of retention or detention ponds located in the Urbanized Area and those catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters and which discharge to, or receive stormwater from, its MS4. This will include such ponds that are owned by the Town of Granby and all privately-owned ponds where the Town of Granby maintains an easement or other legal authority pursuant to Section 6(a)(4)(A)(i) of the 2017 CT DEEP MS4 Stormwater General Permit. At a minimum, the Town of Granby will annually inspect all such retention or detention ponds and remove accumulated sediment to restore full solids capture design capacity where found to be in excess of 50% design capacity.

By June 30, 2019, the Town of Granby will implement a Maintenance Plan for ensuring the long-term effectiveness of stormwater treatment structures or measures (such as swirl

concentrators, oil/grit separators, water quality wetlands or swales, etc.) installed within the Urbanized Area and those catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters. This will include structures that are owned by the Town of Granby or those for which the Town of Granby maintains an easement or other legal authority pursuant to Section 6(a)(4)(A)(i) of the CT DEEP MS4 Stormwater General Permit. At a minimum, the Town of Granby will annually inspect all such structures/measures and remove accumulated pollutants (such as sediment, oils, leaves, litter, etc.) to restore full solids capture design capacity where found to be in excess of 50% design capacity.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Kevin W. Clark, P.E., L.S., Town Engineer (if needed)*

Anticipated date of BMP implementation:

By June 30, 2019

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

5.5 Additional Measures for Discharges to Impaired Waters (with or without a TMDL)

Waters for which Nitrogen, Phosphorus or Bacteria is a Stormwater Pollutant of Concern:

To address erosion and sediment problems noted during the course of conducting the inspections required by subsection D of the 2017 CT DEEP MS4 Stormwater General Permit and identified by other means, the Town of Granby will develop, fund, implement, and prioritize these problems under the Retrofit program specified in Section 6(a)(6)(B) of the 2017 CT DEEP MS4 Stormwater General Permit to correct the problem(s) in a specific timeframe and to establish short term and long term maintenance. Each annual report will include which problem areas were retrofitted, the cost of the retrofit, and the anticipated pollutant reduction.

No requirements in addition to those specified in subsections (A)-(D) of the 2017 CT DEEP MS4 Stormwater General Permit above exist for discharges to waters for which Mercury is a Stormwater Pollutant of Concern.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Kevin W. Clark, P.E., L.S., Town Engineer
Board of Selectmen*

Anticipated date of BMP implementation:

By June 30, 2018

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

Minimum Control Measures No. 6 Pollution Prevention/Good Housekeeping

The Town of Granby will implement an operations and maintenance program for Town of Granby owned or operated MS4s that has a goal of preventing or reducing pollutant runoff and protecting water quality from the Town of Granby MS4.

6.1 Employee Training

The Town of Granby will continue a formal employee training program to increase awareness of water quality related issues in management of its MS4. In addition to providing key staff with topical training regarding standard operating procedures and other activities necessary to comply with the provisions of the 2017 CT DEEP MS4 Stormwater General Permit, the training program will include establishing an awareness of the general goals and objectives of the SMP; identification and reporting of illicit discharges and improper disposal; and spill response protocols and respective responsibilities of involved personnel.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Department of Public Works Employees
University of Connecticut (UConn) Technology Transfer Center
Outside Consultants (if needed)*

Anticipated date of BMP implementation:

Ongoing

BMP Implementation measurable goal:

*Included in 2016 MS4 Annual Report.
To be included in every Annual Report.*

6.2 Infrastructure Repair, Rehabilitation and Retrofit

1. Repair and Rehabilitation Program

The Town of Granby will repair and rehabilitate its MS4 infrastructure in a timely manner to reduce or eliminate the discharge of pollutants from its MS4 to receiving waters.

2. Priority for repair and rehabilitation will be based on the following:

The Town of Granby will utilize the information developed pursuant to Section 6(a)(6)(A)(v) of the 2004 CT DEEP MS4 Stormwater General Permit to fund and implement a program for repairing, retrofitting or upgrading the conveyances, structures and outfalls of the MS4. This program will be updated based on new information on outfalls discharging pollutants, impaired waters, inspection observations or observations made during outfall mapping pursuant to Section 6(a)(3)(C) of the 2017 CT DEEP MS4 Stormwater General Permit.

3. Retrofit Program

The goal of the retrofit program is to "disconnect" existing Directly Connected Impervious Areas (DCIA). An area of DCIA is considered disconnected when the

appropriate portion of the Water Quality Volume has been retained in accordance with the requirements of Section 6(a)(5)(B)(i) or (ii) of the 2017 CT DEEP MS4 Stormwater General Permit. This may be accomplished through retrofits or redevelopment projects (public or private) that utilize Low Impact Development (LID) and runoff reduction measures or any other means by which stormwater is infiltrated into the ground or reused for other purposes without a surface or storm sewer discharge. A redevelopment project, as that term is used here and in Section 6(a)(5)(B)(i) of the 2017 CT DEEP MS4 Stormwater General Permit and (ii), is one that modifies an existing developed site for the purpose of enhancing, expanding or otherwise modifying its function or purpose. A retrofit project is one that modifies an existing developed site for the primary purpose of disconnecting DCIA. The DCIA calculation performed pursuant to Section 6(a)(5)(C) of the 2017 CT DEEP MS4 Stormwater General Permit will serve as the baseline for the retrofit program required in this section.

4. DCIA Disconnection Tracking

Beginning on July 1, 2017, the Town of Granby will track on an annual basis the total acreage of DCIA that is disconnected as a result of redevelopment or retrofit projects within the MS4. Tracking the disconnection of DCIA means documenting within a given redevelopment, or retrofit project, the amount of existing DCIA that is modified such that it is disconnected. This tracking may include disconnections of DCIA from redevelopment or retrofit projects implemented as early as July 01, 2012. Any redevelopment or retrofit of an existing developed site, whether public (municipal, state or federal) or private (residential, commercial or industrial) will be included in this tracking. Tracking the disconnection of DCIA does not apply for sites that were previously undeveloped as there were no existing impervious surfaces on those sites. The total amount of DCIA that has been disconnected during a given year will be reported in the Annual Report for that year

5. Retrofit Planning

By June 30, 2020, the Town of Granby will develop a plan to implement retrofit projects to meet the goals of this section. The Town of Granby will identify and prioritize sites that may be suitable for retrofit. Considerations for prioritizing retrofit projects may include outfall catchment areas that discharge to impaired waters, areas within the Urbanized Area of the MS4 or catchment areas with greater than eleven percent (11%) DCIA. The Town of Granby will select from the list of prioritized projects those that it will implement to meet the goals in subparagraph (c) below. In the Annual Report for the third year of this general permit, the Town of Granby will report on identification and prioritization process, the selection of the projects to be implemented, the rationale for the selection of those projects and the total DCIA to be disconnected upon implementation of the projects.

6. Retrofit Schedule

By June 30, 2022, the Town of Granby will commence the implementation of the retrofit projects identified in subparagraph (b), above, with a goal of disconnecting one percent (1%) per year of the Town of Granby DCIA for the fourth and fifth years of this general permit, or a total of 2%, to the MEP. The two percent (2%) goal may be achieved by compiling the total disconnected DCIA tracked pursuant to subparagraph (a), above, or the retrofit projects designated in subparagraph (b), above, or a combination of the two. If the two percent (2%) goal will not be met, the Town of Granby will include in the

Annual Report a discussion of what percentage of DCIA will actually be disconnected and why the remainder of the two percent (2%) goal could not be achieved based on the MEP standard outlined in Section 5(b). The Town of Granby will also provide in the Annual Report for the fifth year of 2017 CT DEEP MS4 Stormwater General Permit for continuation of the retrofit program and continue such program with a goal to disconnect one percent (1%) of DCIA in each year thereafter.

Personnel responsible for implementing and maintaining the BMP:

Kevin W. Clark, P.E., L.S., Town Engineer

Anticipated date of BMP implementation:

By June 30, 2020 and June 30, 2022 as specified

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

6.3 MS4 Property and Operations Maintenance

Town of Granby-owned or operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of the Town of Granby will be maintained so as to minimize the discharge of pollutants to its MS4. Such maintenance will include, but not be limited to:

1. Parks and Open Space

The Town of Granby will optimize the application of fertilizers by municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance. Optimization practices considered may include conducting soil testing and analysis to determine soil phosphorus levels, the reduction or elimination of fertilizers, reduction of usage by adhering to the manufacturers' instructions, and use of alternative fertilizers forms (i.e. products with reduced, slow-releasing, or insoluble phosphorus compositions). Additional optimization practices to be considered include: proper storage and application practices (i.e. avoid impervious surfaces), application schedule (i.e. appropriate season or month) and timing (i.e. coordinated with climatic conditions to minimize runoff potential); develop and implement standard operating practices for the handling, storage, application, and disposal of pesticides and herbicides in compliance with applicable state and federal laws; evaluate lawn maintenance and landscaping activities to promote water quality (protective practices include reduced mowing frequencies, proper disposal of lawn clippings, and use of alternative landscaping materials like drought resistant and native plantings); and establish procedures for management of trash containers at parks (scheduled cleanings; sufficient number). The Town of Granby will establish practices for the proper disposal of grass clippings and leaves at Town of Granby-owned lands. Grass clippings will be composted or otherwise appropriately disposed. Grass clippings should not enter the MS4 system or waters of the state.

2. Pet Waste Management

The Town of Granby will identify locations within its community/institution where inappropriate pet waste management practices are immediately apparent and pose a threat to receiving water quality due to proximity and potential for direct conveyance of waste to its storm system and waters. In such areas, the Town of Granby will, implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators). In Town of Granby-owned recreational areas where dog walking is allowed, the Town of Granby will install educational signage, pet waste baggies, and disposal receptacles (or require carry-out). The Town of Granby will document its efforts in its annual reports. The Town of Granby should consider including information regarding the scope and extent of its education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

3. Waterfowl Management

Identify lands where waterfowl congregate and feeding by the public or institutional staff/residents occurs. To raise awareness regarding the water quality impacts, the Town of Granby will install signage or use other targeted techniques to educate the public about the detrimental impacts of feeding waterfowl (including the resulting feces deposition) and discourage such feeding practices. The Town of Granby will also implement practices that discourage the undesirable congregation of waterfowl in these areas, or otherwise isolate the direct drainage from these areas away from its storm system and waters.

4. Buildings and facilities (schools under the jurisdiction of the Town of Granby, Town of Granby offices, police and fire stations, pools, parking garages and other Town of Granby-owned or operated buildings or utilities).

Evaluate the use, storage, and disposal of both petroleum and non-petroleum products; ensure, through employee training, that those responsible for handling these products know proper procedures; ensure that Spill Prevention Management Plans (SPMPs) are in place, if applicable, and coordinate with the Fire Department as necessary; develop management procedures for dumpsters and other waste management equipment; sweep parking lots and keep areas surrounding the facilities clean to minimize runoff of pollutants; and ensure that all interior building floor drains are not connected to the MS4. The 2004 or 2017 CT DEEP MS4 Stormwater General Permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted.

5. Vehicles and Equipment

Establish procedures for the storage of Town of Granby-owned or operated vehicles; require vehicles with fluid leaks to be stored indoors or in contained areas until repaired; evaluate fueling areas owned by the Town of Granby and used by Town of Granby-owned or operated vehicles and if possible, place fueling areas under cover in order to minimize exposure; establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters.

The 2017 CT DEEP MS4 Stormwater General Permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted by the General Permit for the Discharge of Vehicle Maintenance Wastewater.

6. Leaf Management

The Town of Granby will establish and implement procedures to minimize or prevent the deposition of leaves in catch basins, streets, parking lots, driveways, sidewalks or other paved surfaces that discharge to the MS4. Such procedures will also apply to leaves collected by the Town of Granby.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Board of Selectmen
Town Residents*

Anticipated date of BMP implementation:

By June 30, 2018

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

6.4 Street, Parking & MS4 Maintenance

The Town of Granby will implement a program to provide for regular inspection and maintenance of Town of Granby streets, parking areas and other MS4 infrastructure.

1. Sweeping

- A. Establish and implement procedures for sweeping Town of Granby-owned or -operated streets and parking lots. All streets and parking lots within the Urbanized Area (UA) of the MS4, and outside the UA within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, will be inspected, swept and/or cleaned (as necessary) with a minimum frequency of once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.). The procedures will also include more frequent inspections, cleaning and/or sweeping of targeted areas determined by the Town of Granby to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources.

The Town of Granby will identify such potential pollutant sources based upon surface inspections, catch basin cleaning or inspection results, land use, winter road deicing and/or sand application, impaired or TMDL waters or other relevant factors as determined by the Town of Granby. If wet dust suppression is conducted, the use of water should be minimized such that a discharge of excess water to surface waters and/or the storm sewer system does not occur.

For streets and parking lots outside the UA and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, including any rural uncurbed streets and parking lots with no catch basins, the Town of Granby will either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping and/or cleaning plan within one (1) year of the effective date of the general permit, and submit such plan with the Annual Report for that year. For new and redeveloped municipal parking lots, evaluate options from reducing stormwater runoff to surface waters and/or the storm sewer system by the installing pervious pavements and/or other measures to promote sheet flow of stormwater.

- B. Ensure the proper disposal of street sweepings in accordance with CT DEEP policies, guidance and regulations. Sweepings will not be discharged back into the storm drain system and/or surface waters.
- C. The Town of Granby will document results of its sweeping program in the Annual Report, including, at a minimum: a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected, and method(s) of reuse or disposal. The Town of Granby will also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

2. Catch Basin Cleaning

The Town of Granby will conduct routine cleaning of all catch basins. The Town of Granby will track catch basin inspection observations. Utilizing information compiled through its inventory of catch basins, operational staff and public complaints, the Town of Granby will optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- A. Inspect all Town of Granby catch basins within the Urbanized Area of the MS4, and outside the Urbanized Area within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters at least once by the end of the third year following the effective date of this general permit. Catch basins outside the Urbanized Area and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters will be inspected by the end of the fifth year following the effective date of this general permit.
- B. Prioritize inspection and maintenance for Town of Granby-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
- C. Establish a schedule that the frequency of routine cleaning will ensure that no catch basin will be more than fifty (50) percent full.
- D. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, the Town of Granby will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. The Town of Granby will describe any actions taken in the Annual Report.
- E. For the purposes of this subsection, an excessive sediment or debris loading is a catch basin sump more than fifty (50) percent full (A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the height between the interior base of the catch basin to the invert of the deepest invert elevation outlet of the catch basin).
- F. The Town of Granby will document in the SMP and in the 2017 Annual Report its SMP for optimizing catch basin cleaning, inspection plans, or its schedule for gathering information to develop the optimization plan. Documentation will

include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. The Town of Granby will keep a log of catch basins cleaned or inspected.

- G. The Town of Granby will report in each Annual Report the total number of catch basins cleaned, the number of catch basins inspected, the total volume or mass of material removed from all catch basins and, if practicable, the volume or mass of material removed from each catch basin draining to water quality limited waters.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Department of Public Works Employee(s)*

Anticipated date of BMP implementation:

By June 30, 2022

BMP Implementation measurable goal:

Catch basin mapping with a handheld GPS unit was completed in calendar year 2005, calendar year 2006 and calendar year 2009 by a DPW employee. It is anticipated that the catch basin GPS inventory will be used to create a GIS map layer.

To be included in the applicable Annual Report.

6.5 Snow Management Practices

1. Deicing Material Management

Develop and implement standard operating practices for the use, handling, storage, application, and disposal of deicing products such as salt and sand to minimize exposure to stormwater; consider means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety) and consider opportunities for use of alternative materials; for any exterior containers of liquid deicing materials installed after the effective date of CT DEEP 2017 MS4 Stormwater General Permit, provide secondary containment of at least 110% of the largest container or 10% of the total volume of all containers, whichever is larger, without overflow from the containment area.

2. Snow and Ice Control Practices

The Town of Granby will implement and refine its standard operating practices regarding municipal road snow and ice control to minimize the discharge of sand, anti-icing or de-icing chemicals and other pollutants (while maintaining public safety). The Town of Granby will establish goals for the optimization of sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g. zero-velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals. The Town of Granby will maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals. The Town of Granby will ensure the proper training for deicing applications for municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance.

The Town of Granby will manage and dispose of snow accumulations in accordance with CT DEEP's *Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots* (DEP-PED-GUID-002 Revised 02/04/11) and as amended (see link at: www.ct.gov/deep/stormwater). Each Annual Report will document the results of the snow removal program including, at a minimum: the type of staff training conducted on application methods and equipment, type(s) of deicing materials used; lane-miles treated; total amount of each deicing material used; type(s) of deicing equipment used; any changes in deicing practices (and the reasons for the change); and snow disposal methods.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
Department of Public Works Employees*

Anticipated date of BMP implementation:

By June 30, 2022

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

6.6 Interconnected MS4s

As part of interagency agreements established pursuant to Section 6(c)(3) of the 2017 CT DEEP MS4 Stormwater General Permit, the Town of Granby will coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas and stormwater control measures in the respective MS4s. This same coordination will be conducted regarding operation and maintenance procedures utilized in the respective systems.

Personnel responsible for implementing and maintaining the BMP:

*Kirk A. Severance, Director of Public Works
ConnDOT*

Anticipated date of BMP implementation:

By June 30, 2022

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

6.7 Sources contributing pollutants to the MS4

The Town of Granby will develop and implement a program to control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by permit issued pursuant to Sections 22a-430 or 22a-430b of the Connecticut General Statutes.

Personnel responsible for implementing and maintaining the BMP:

Board of Selectmen

Anticipated date of BMP implementation:

By June 30, 2022

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

6.8 Additional Measures for Discharges to Impaired Waters (with or without a TMDL)

1. For waters for which Nitrogen or Phosphorus is a Stormwater Pollutant of Concern:

On Town of Granby-owned or operated lands, implement a turf management practices and procedures policy which includes, but is not limited to, procedures for proper fertilizer application and the planting of native plant materials to lessen the amount of turf area requiring mowing and the application of chemicals.

Each Annual Report will discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.
2. For waters for which Bacteria is a Stormwater Pollutant of Concern:

On Town of Granby-owned or operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), the Town of Granby will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Each Annual Report will identify problem areas for which a retrofit or source management program were developed, the location of the closest outfall monitored in accordance with Section 6(i), the cost of such retrofit or program, and the anticipated pollutant reduction.

On Town of Granby-owned or operated lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Each Annual Report will discuss the actions taken to implement this program.

Personnel responsible for implementing and maintaining the BMP:

Board of Selectmen

Anticipated date of BMP implementation:

By June 30, 2022 at the latest

BMP Implementation measurable goal:

To be included in the applicable Annual Report.

The Town of Granby will conduct stormwater monitoring in accordance with the requirements of Section 6(i) Monitoring Requirements of the 2017 CT DEEP MS4 Stormwater General Permit.

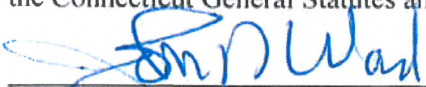
The Town of Granby will keep records and summarize the records in the calendar year Annual Report in accordance with the requirements of Section 6(j) Reporting & Record Keeping Requirements of the 2017 CT DEEP MS4 Stormwater General Permit.

Certification Requirements for Registrants and Other Individuals

The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of such general permit, (ii) the Stormwater Management Plan, and (iii) any plans and specifications and any Department approvals regarding such Stormwater Management Plan.

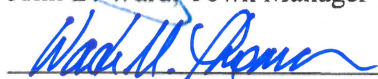
The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in Section 3(b)(8)(A) of this general permit, made an affirmative determination to: (i) comply with the terms and conditions of this general permit; (ii) maintain compliance with all plans and documents prepared pursuant to the general permit including, but not limited to, the Stormwater Management Plan; (iii) properly implement and maintain the elements of the Stormwater Management Plan and (iv) properly operate and maintain all stormwater management measures and systems in compliance with the terms and conditions of the general permit to protect the waters of the state from pollution.

"I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, submitted to the Commissioner by the Town of Granby for an activity located at or within the municipality of Granby and that all terms and conditions of the general permit are being met for all discharges which have been created, initiated or maintained and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by the general permit at the site. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of the general permit. I understand that the registration filed in connection with the general permit is submitted in accordance with and will comply with the requirements of Section 22a-430b of Connecticut General Statutes, as amended by Public Act 12-172. I also understand that knowingly making any false statement made in the submitted information and in this certification, may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."



John D. Ward, Town Manager

Registrant



Wade M. Thomas, CPESC, CPSWQ

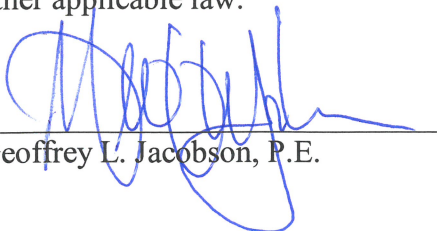
Registration Preparer

Stormwater Management SMP Certification

I have completely and thoroughly reviewed the general permit and the following regarding the discharges to be authorized under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of the general permit, (ii) the Stormwater Management Plan, and (iii) all non-engineered and engineered stormwater management measures and systems, including any plans and specifications and any Department approvals regarding such stormwater management measures and systems.

I have made an affirmative determination, based on the review described in Section 3(b)(9)(A) of the general permit and on best engineering practices, that the Stormwater Management Plan and control measures therein are adequate to assure that the activity authorized under the general permit will comply with the terms and conditions of such general permit and all non-engineered and engineered stormwater management measures and systems: (i) have been designed in accordance with best engineering practices; (ii) will function properly as designed; (iii) are adequate to ensure compliance with the terms and conditions of this general permit; and (iv) will protect the waters of the state from pollution.

"I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by the Town of Granby for an activity located at or within the Town of Granby. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of the general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of all information described in Section 3(b)(9)(A) of the general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of the general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."



Geoffrey L. Jacobson, P.E.

Town of Granby Stormwater Management Plan Amendments

Date:

June 12, 2017

John D. Ward replaced William F. Smith, Jr. as Town Manager by a unanimous vote of the Board of Selectmen.